



PATENT  
ATTORNEY DOCKET NO. INTEL1120 (P15611)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Yamakawa, et al. Art Unit: 2857  
Serial No.: 10/748,389 Examiner: Unassigned  
Filed: December 29, 2003  
Title: MICROFLUID MOLECULAR-FLOW FRACTIONATOR AND BIOREACTOR  
WITH INTEGRATED ACTIVE/PASSIVE DIFFUSION BARRIER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

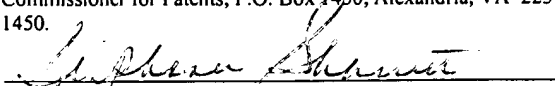
Sir:

In accordance with 37 C.F.R. 1.97, enclosed are references relating to the above-identified application. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449 and Items B, C, D, and E are provided herewith.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

**CERTIFICATION UNDER 37 CFR §1.8**

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on November 4, 2004, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Stephanie Sharrett


In Re Application of:  
Yamakawa, et al.  
Application Serial No.: 10/748,389  
Filed: December 29, 2003  
Page 2

PATENT  
Attorney Docket No.: INTEL1120 (P15611)

This Information Disclosure Statement is being filed before the mailing date of the first office action on the merits. Therefore, no fee is due, and Applicants do not believe any other fees are due in connection with this submission. However, the Commissioner is hereby authorized to charge any amounts required by this filing, or credit any overpayment, to Deposit Account No. 50-1355.

Respectfully submitted,

Date: November 4, 2004

  
\_\_\_\_\_  
Michael P. Reed  
Registration No. 45,647  
Telephone: (858) 638-6754  
Facsimile: (858) 677-1465

GRAY CARY WARE & FREIDENRICH LLP  
ATTORNEYS FOR INTEL CORPORATION  
4365 Executive Drive, Suite 1100  
San Diego, California 92121-2133  
USPTO Customer No. 28213



In re Application of:  
Yamakawa, et al.  
Application No.: 10/748,389  
Filed: December 29, 2003  
Page 2

PATENT  
Attorney Docket No.: INTEL1120

Applicants do not believe any fees are due in connection with this Information Disclosure Statement. However, if any fees are required, authorization is hereby given to charge Deposit Account No. 50-1355. A duplicate copy of this Transmittal sheet is enclosed.

Respectfully submitted,

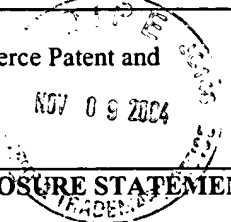
Date: November 4, 2004



---

Michael P. Reed  
Registration No. 45,647  
Telephone: (858) 638-6754  
Facsimile: (858) 677-1465

**USPTO CUSTOMER NUMBER 28213**  
GRAY CARY WARE & FREIDENRICH LLP  
ATTORNEYS FOR INTEL CORPORATION  
4365 Executive Drive, Suite 1100  
San Diego, CA 92121-2133

|  |  |                                  |
|--|--|----------------------------------|
| <b>FORM PTO-1449</b><br>U.S. Department of Commerce Patent and<br>Trademark Office<br> | <b>Docket No.</b><br>INTEL1120 (P15611)  | <b>Serial No.:</b><br>10/748,389 |
|  | <b>Applicant(s):</b> Yamakawa, et al.    |                                  |
| <b>INFORMATION DISCLOSURE STATEMENT<br/>BY APPLICANT</b>   | <b>Filing Date:</b><br>December 29, 2003 | <b>Group Art Unit:</b><br>2857   |

### U.S. PATENT DOCUMENTS

| EXAM.<br>INITIALS |   | DOCUMENT<br>NUMBER | DATE   | NAME          | CLASS | SUB-<br>CLASS | FILING<br>DATE |
|-------------------|---|--------------------|--------|---------------|-------|---------------|----------------|
|                   | A | 6,514,767          | 2/4/03 | Michael Natan | 436   | 166           |                |
|                   |   |                    |        |               |       |               |                |

### FOREIGN PATENT DOCUMENTS

| EXAM.<br>INITIALS |  | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUB-<br>CLASS | TRANSLATION<br>(YES/NO) |
|-------------------|--|--------------------|------|---------|-------|---------------|-------------------------|
|                   |  |                    |      |         |       |               |                         |

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

|  |   |  |
|--|---|--|
|  | B | Doering, et al., "Spectroscopic Tags Using Dye-Embedded Nanoparticles and Surface -Enhanced Raman Scattering", <i>Analytical Chemistry</i> , :5-9  |
|  | C | Fuh, et al., "Analytical SPLITT Fractionation: Rapid Particle Size Analysis and Measurement of Oversized Particles", <i>Anal Chem. Soc.</i> 64:3125-3132 (1992)                          |
|  | D | Gale, et al., "A Micromachined Electrical Field-Flow Fractionation ( $\mu$ -EFFF) System", <i>IEEE</i> 45(12):1459-1469, (1998).   |
|  | E | Mulvaney, et al., "Glass-Coated, Analyte-Tagged Nanoparticles: A New Tagging System Based on Detection with Surface-Enhanced Raman Scattering", <i>Am Chem Soc.</i> 19:4784-4790 (2003). |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |

|  |                        |
|--|------------------------|
| <b>EXAMINER</b><br><br>GT\6421411.1<br>1090132-5 | <b>DATE CONSIDERED</b> |
|--|------------------------|

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.